

AMENDMENTS TO THE SPECIFICATION

Please cancel the amendments to the specification presented in the Response filed August 8, 2009.

Please amend paragraph [0056] as follows:

The output from the data processor following application of these algorithms (or other processing) to the captured image is transmitted over a data bus 105 to a secondary data processing unit 106. This data fully describes the road on which the host vehicle is travelling and includes one or more of the following parameters.

Please amend paragraph [0064] as follows:

A measure of the confidence of the lane parameter estimation is also calculated and transmitted via the bus 105 to the secondary processor 106. This calculation is based on the variance associated with the parameter estimation. The confidence level is particularly important in the event that lane markings have deteriorated or the road layout is very complicated. If a low confidence level is indicated the system may switch to an alternative strategy for target selection.

Please amend paragraph [0065] as follows:

The secondary processor 106 fuses together the data describing the road layout with data obtained from the vehicle identification sensor(s) in real time. This enables it to be integrated within ACC or other driver assistance systems.